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TITLE: Preparation of 1H-pyrazole-3-carboxamides as

cannabinoid receptor stimulators

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LANGUAGE: English

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AB

carbocyclic, heterocyclic, or (hetero)aromatic ring fused to a heterocyclic or heteroarom. ring; n = 0-7; Z and R3 = H, halo, N3, NCS, CN, N02, NX1X2, OX3, OAc, acyloxy, aroyloxy, O(CH2)nOH, O(CH2)nNX1X2, acylamino, aroylamino, CHO, CF3, CO2X3, SO3H, SO2NX1X2, CONX1X2, alkoxy, alkylmercapto, or (di)alkylamino; or Z = (un)substituted carbocyclyl, heterocyclyl, (hetero)aryl, (hetero)bicyclyl, or (hetero)tricyclyl; X1 and X2 = independently H or alkyl; or NX1X2 = heterocyclyl or imide ring; X3 = H, (hydroxy)alkyl, or alkyl-NX1X2; n = 0-6; R2 = (un)substituted carbocyclyl, heterocyclyl, or (hetero)aryl; or R2 = carbocyclic, heterocyclic, or (hetero) aromatic ring fused to a heterocyclic or heteroarom. ring; or R3 = Ph, alkyl, OH, alkylsulfinyl, alkylsulfonyl, heterobicyclyl, (hetero)tricyclyl, CH2Z, etc.; R4 = (CH2)nZ, C6H4-(CH2)nZ, etc.; R5 = H or (un) substituted alkyl; with provisos] were prepared For example, cyclocondensation of the lithium salt of Et 2,4-dioxo-3-methyl-4-(4-bromophenyl)butanoate with 2,4-dichlorophenylhydrazine•HCl gave 1-(2,4-dichlorophenyl)-4-methyl-5-(4-bromophenyl)-1H-pyrazole-3-carboxylic acid Et ester. Bromination with N-bromosuccinimide, conversion to the alc. using AgNO3 in aqueous acetone, amidation with 1-aminopiperidine in the presence of AlCl3, and Suzuki coupling with di-Et (3-pyridyl)borane afforded II. I exhibited CB1 and CB2 cannabinoid receptor binding affinities with Ki values in the range of 1.51-85.1 and 5.81-2312, resp. Some invention compds. showed CB1 selectivity ranging from 2-452, while

Title cannabimimetic pyrazole analogs I [wherein R1 = (CH2)nZ; or R1 =

ΙI

others showed CB2 selectivity ranging from 1-4. Thus, I are useful for 501423-62-7P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

the treatment of central nervous system disorders (no data).

(intermediate; preparation of pyrazolecarboxamides as cannabinoid receptor stimulators for treatment of CNS disorders)

- RN 501423-62-7 CAPLUS
- CN 1H-Pyrazole-3-carboxamide, 4-methyl-5-phenyl-N-tricyclo[3.3.1.13,7]dec-1-yl- (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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